

**Abstract**

The invention relates to the use of perfluoroalkyl-containing metal complexes that have a critical micelle formation concentration  $< 10^{-3}$  mol/l, a hydrodynamic micelle diameter ( $2 R_h$ )  $> 1$  nm and a proton relaxivity in plasma ( $R^1$ )  $> 10$  l/mmol.s) as contrast media in MR imaging for visualization of plaque, lymph nodes, infarcted and necrotic tissue and for independent visualization of necrotic tissue and tumor tissue.

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